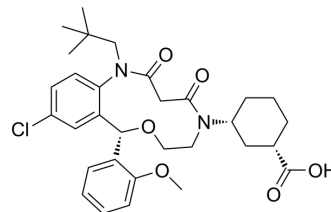


Squalene synthase-IN-2

Cat. No.:	HY-163452
Molecular Formula:	C ₃₁ H ₃₉ ClN ₂ O ₆
Molecular Weight:	571.1
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Squalene synthase-IN-2 (compound isomer A-(1S, 3R)-14i) is an orally active squalene synthase inhibitor with IC ₅₀ values of 3.4, 99 nM for squalene synthase and cholesterol synthesis, respectively. Squalene synthase-IN-2 reduces plasma cholesterol and triglyceride ^[1] .								
IC₅₀ & Target	IC ₅₀ : 3.4 nM (squalene synthase); 99 nM (cholesterol synthesis) ^[1]								
In Vivo	<p>Squalene synthase-IN-2 (compound isomer A-(1S, 3R)-14i) (100 mg/kg for hamster, 10 mg/kg for marmoset; p.o.) shows plasma lipid-lowering efficacy in hamster and marmoset^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Hamster and marmoset^[1]</td> </tr> <tr> <td>Dosage:</td> <td>100 mg/kg for hamster, 10 mg/kg for marmoset</td> </tr> <tr> <td>Administration:</td> <td>P.o.; daily for 14 days for hamster, 7 days for marmoset</td> </tr> <tr> <td>Result:</td> <td>Demonstrated a significant reduction of non-high-density lipoprotein (HDL) cholesterol by 18% and a reduction of triglyceride (TG) by 16% in marmoset, reduced total cholesterol by 32% and TG by 35% in hamsters.</td> </tr> </table>	Animal Model:	Hamster and marmoset ^[1]	Dosage:	100 mg/kg for hamster, 10 mg/kg for marmoset	Administration:	P.o.; daily for 14 days for hamster, 7 days for marmoset	Result:	Demonstrated a significant reduction of non-high-density lipoprotein (HDL) cholesterol by 18% and a reduction of triglyceride (TG) by 16% in marmoset, reduced total cholesterol by 32% and TG by 35% in hamsters.
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REFERENCES

[1]. Haginoya N, et al. Discovery of Novel 11-Membered Templates as Squalene Synthase Inhibitors. J Med Chem. 2024 Mar 22.

Caution: Product has not been fully validated for medical applications. For research use only.

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